

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Yijia Bao, et al

Serial No:

Examiner: Ethan C. Whisenant

Filed:

Group Art Unit: 1634

For: TREATMENT OF SUBSTRATES FOR
IMMOBILIZING BIOMOLECULESINFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56, 1.97 – 1.98Commissioner of Patents
Alexandria, VA 22313-1450

Dear Sir:


The Examiner's attention is hereby directed to the following reference(s) listed on the attached Form PTO-1449 for consideration in connection with the examination of the above-identified patent application. A copy of each of the reference(s) is enclosed unless it was previously submitted in related U.S. Application No. 09/925,808 or were cited in an International Search Report in a corresponding application.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the enclosed documents constitute "prior art." If it should be determined that any of the submitted documents do not constitute "prior art" under United States law, applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the enclosed references, should one or more of the references be applied against the claims of the present application.

Respectfully submitted,

Thomas R. Beall
Registration No. 40,424
Corning Incorporated
SP-TI-03-1
Corning, NY 14831
607-974-3921Date: December 5, 2003

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| I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner of Patents, Alexandria, VA 22313-1450 on <u>December 5, 2003</u> | |
| Date of Deposit | |
| Thomas R. Beall | |
| Name of applicant, assignee, or Registered Representative | |
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| Signature | |
| <u>December 5, 2003</u> | |
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| FORM PTO-1449 (MODIFIED) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANTS INFORMATION DISCLOSURE STATEMENT | ATTORNEY DOCKET NO. SP01-208A | SERIAL NO. |
| | APPLICANT Yijia Bao, et al. | |
| | FILING DATE | GROUP: 1634 |

| REFERENCE DESIGNATION | | | | U.S. PATENT DOCUMENTS | | | |
|-----------------------|----|-----------------|----------|-----------------------|-------|-----------|------------------------|
| Examiner Initial | | Document Number | Date | Name | Class | Sub-Class | Filing Date if Approp. |
| | AA | 5,807,522 | 09-1998 | Brown et al. | | | |
| | AB | 6,110,426 | 08-2000 | Shalon et al. | | | |
| | AC | 6,171,794 B1 | 01-09-01 | J. Burchard et al. | 435 | 6 | |
| | AD | | | | | | |
| | AE | | | | | | |
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| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|----|-----------------|---------|---------|-------|-----------|-----------------------|--|
| | | Document Number | Date | Country | Class | Sub-Class | Translation Yes No | |
| | AL | WO2002033412 | 04-2002 | PCT | | | X | |
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| OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.) | | |
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| | AR | "Super Microarray Substrates Handbook", www.arrayit.com , TeleChem International, Inc. |
| | AS | B. Clancy et al., "Reduction of Background Autofluorescence in Brain Sections Following Immersion in Sodium Borohydride", Journal of Neuroscience Methods, Vol. 83 (1998), pgs. 97-102 |
| | AT | W. Beisker et al., "An Improved Immunocytochemical Procedure for High-Sensitivity Detection of Incorporated Bromodeoxyuridine", Cytometry, Vol. 8 (1987), pgs. 235-239 |
| | AU | S.A. Schnell et al., "Reduction of Lipofuscin-like Autofluorescence in Fluorescently Labeled Tissue", Journal of Histochemistry and Cytochemistry, Vol. 47, June 1999, pgs. 719-730 |
| | AV | M.C. Willingham, "An Alternative Fixation-Processing Method For Preembedding Ultrastructural Immunocytochemistry of Cytoplasmic Antigens: The GBS (glutaraldehyde-borohydride-saponin) Procedure", Journal of Histochemistry & Cytochemistry, Vol. 31, Issue 6, June 1, 1983, pgs. 791-798 |
| | AW | M. Schena et al., "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes", Proc. Natl. Acad. Sci. USA, Vol. 93, October 1996, Biochemistry, pgs. 10614-10619 |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|-----------------------|----|-----------------|------|-----------------------|-------|-----------|------------------------|
| Examiner Initial | | Document Number | Date | Name | Class | Sub-Class | Filing Date if Approp. |
| | AA | | | | | | |
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| | | Document Number | Date | Country | Class | Sub-Class | Translation Yes No |
| | AL | | | | | | |
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| | AP | | | | | | |
| | AQ | | | | | | |

| OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.) | |
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| AR | N. Zammatteo et al., "Comparison Between Different Strategies of Covalent Attachment of DNA to Glass Surfaces to Build DNA Microarrays", Analytical Biochemistry, Vol. 280, 2000, pgs: 143-150 |
| AS | F. Diehl et al., "Manufacturing DNA Microarrays of High Spot Homogeneity and Reduced Background Signal", Nucleic Acids Research, 2001, Vol. 29, No. 7: E38, http://nar.oupjournals.org/cgi/content/full/29/7/e38 |
| AT | Joon-Ik Ahn et al., "Optimization of DNA Fabrication in Microarrays, Department of Biochemistry, College of Medicine & The Mental Health Institute, Hanyang University, Seoul |
| AU | Xenopore Binding Protocols, "Suggested Binding Protocols for Xenoslides", http://www.xenopore.com/binding.html |
| AV | Reduction Reactions, "II Reduction Reactions", http://www.che.bham.ac.uk/publicsite/staff/staff%20details/cox/teaching/reduction%20react... |
| AW | "Sodium Borohydride Reduction", http://ice.chem.umbc.edu/Chem3521/borohydride.html |
| AX | Schena et al., PNAS, USA, 93 : 10,614 – 10,619 (Oct. 1996) |

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